STREET LIG

10%

BRACKETS AND CENTER SPAN FIXTURES

POR

MAZDA LAMPS



GENERAL ELECTRIC COMPANY
SCHENECTADY NEW YORK



STREET LIGHTING BRACKETS AND CENTER SPAN FIXTURES

FO

MAZDA LAMPS



Data in This Publication Subject to Change without Notice

GENERAL ELECTRIC COMPANY
SCHENECTADY NEW YORK

Y-784 April 1 1916 Superiedes Y 619: Classes 28-26

SERIES BRACKETS AND FIXTURES FOR

GENERAL INDEX

Pages

General Description .	.4-14
Series Brackets	16-25 26-31
$\begin{array}{l} \text{Multiple} \; \Big\{ \begin{array}{l} \text{Brackets} \\ \text{Fixtures} \end{array} \right. \end{array}$	32-41 42-46
Railway Bracket .	47
Reflectors and Fittings.	48-49
Sockets and Receptacles.	. 50–51
General Data	. 52-60



SERIES BRACKETS AND FIXTURES FOR INCANDESCENT STREET LIGHTING

The astute purchaser of street lighting brackets and fixtures buys for illuminating quality, safety, durability and appearance; the relative importance of these features being in approximately the order named. The following brief description will indicate how well these demands are met by the line of material manufactured by the General Electric Company.

HARMINATING QUALITIES

Generally speaking, streets are lighted by one of two methods assuming that conditions require an average mounting of 15 to 18 ft.

First, low candle-nower lamns with a comparatively close spacing.

Second, higher candle-power lamps with a wider spacing. For the first class of street lighting which covers installations of 40, 60, 80 or 100 c-p. MAZDA series lamps, we recommend the radial wave reflector for spacings of 150 ft. or less, the dome radial wave reflector for spacings of over 150 ft.; and the Holophane prismatic band refractor as an alternative to the

latter for extreme spacings. For the second class where 250 or 400 c-p, lamps are used. we recommend dome radial wave reflectors for spacings of less

than 200 ft. and the refractors for all greater spacings. The radial wave reflector gives a fair amount of light at the

higher angles with more light toward the vertical and is very satisfactory for close spacings. The dome radial wave reflector gives its maximum light at the 10 degree angle with a fair amount under the lamp and tends

toward uniform intensities from one lamp to the other even at comparatively wide spacings. See description under Durability. The Holophane prismatic band refractor accomplishes the same results as the dome radial wave reflector except in a

more marked degree, giving most of its light at the 10 degree angle. It permits relatively wide spacing between lamps and gives

sufficient lighting underneath the lamp to meet the requirements of the two types of reflecting road surfaces; asphalt pavements and oil-treated roads with a polished surface giving a high degree of specular reflection; granite block pavements and dirt roads, absorbing most of the light but reflecting a little diffusely.

The importance of meeting the requirements of modern road surfaces, as outlined above, is becoming recognized more and more by illuminating engineers, for it means the attainment of proper silhouetting which is now recognized as foremost in the process of "seeing."

ILLUMINATING QUALITIES (Cont'd)

In the General Electric line there is a lamp and a light directing device for every possible condition of street lighting service.

In any case, the position of the filament in relation to the reflecting surface is most important. If the filament is too far away from the reflector more light is thrown directly under the lamp, less light is projected at the angles best suited for street illumination and a considerable portion of light is thrown above the horizontal where it is not only useless for the illumination of the street, but is a source of annovance to residents.

On the other hand, if the filament is too close to the reflector more light is absorbed and the spherical efficiency of the unit

s seriously reduced without improving the distribution.

In the General Electric units the position of the light source with respect to the reflector has been very carefully computed and verified by the Illuminating Engineering Laboratories of the General Electric Company at Schenectady, N. Y .; Lynn, Mass.; Cleveland, Ohio and Harrison, N. J.

SAFETY

"Safety First" was uppermost in the minds of the designing engineers of this line of fixtures, and the factor of safety is 100 per cent.

Our main insulator is the principal factor that makes toward absolute safety. It will withstand voltage strains up to 25,000 volts. It interposes a maximum insulation between current carrying parts. It has great mechanical strength because it is composed of only one massive porcelain. This form of design eliminates the use of a number of small insulators; combines lightness with great strength for there is no waste material where not needed and there is ample cross section at all parts subjected to strains. There are no projecting parts

that are not sufficiently strong to withstand severe service.

These insulators are made of the highest grade of dry process porcelain with a uniform heavily glazed surface of remarkable dielectric strength. The high pressure under which these are formed and the care taken in drying and firing them ensures a homogeneous structure free from cracks or flaws

and perfectly hydroscopic.

A most salient point in the design of the insulator is that it also acts as a spreader arm for the leads. No unsightly cross arms with small additional insulating bushings are required. For open wiring, it is simply necessary to bring the leads directly to the tying ears on the insulator and then through the porcelain to the interior binding posts. For concealed wiring the leads can be brought through the bracket pipe, through the hood into the top of the insulator and then to the binding posts.

The binding posts are heavy brass castings each one equipped with two phosphor-bronze screws to prevent the

possibility of loose connections, open circuits or grounds.

APPEARANCE

The General Electric Company's brackets and fixtures are simple and unobstrusive in appearance but have characte in every line. The large number of designs permit a selection which will harmonize with the thoroughtare whether it be residential street, a park or a suburban road.

DURABILITY

The materials used in the manufacture of this line are of this highest quality and the finish of each part has been carefull selected. These features allow a maximum life for the bracke or fixture and careful exacting workmanship ensures the interchangeability of the parts.

Their mechanical strength also assists in making ther durable. For example, the reflector is held by four sherardize steel clips operated by a phosphor-bronze screw. In reality

these clips are miniature vises which hold the reflector with positive grip that does not mar the enameled surface.

The reducers are heavily enameled, both upper and lowe surfaces with a highly glazed reflecting surface. In a loc andle-power lamp this is in many cases objectionable for the downward light cannot be spared without getting too low as intensity directly underneath the lamp. The Holophane primatic band refractor corrects this condition as the downwar matic band refractor corrects this condition as the downwar

When lighted, the refractor presents a beautiful appearano and, combining as it does, the advantages of the refractor will its remarkable widespread light distribution (a distribution that would only be obtained by a reflector many feet in diameter and excellent illumination beneath the lamp, it approaches the ideal for the class of illumination where incandescent bracket

and center span fixtures are ordinarily used.

The refractor holder is hinged to the spun dome and i held in closed position by an automatic spring latch.

ECONOMICAL MAINTENANCE

It is interesting to note that reports concerning the

show that breakage is practically negligible.

Mechanically, the band refractor possesses a great man features, among these may be mentioned the following:

ventilation. As the lower part of the refractor is entirely

open, perfect ventilation of the lamp is assured.

Bugproof. The bugproofing problem is happily solved for there is no place for bugs to collect due to the open base. For this same reason there is no diminution of light due to a collection of insects.

DOME REFLECTOR

One of the most recent developments is the 20-in, radial wave reflector having a large handhole to enable the socket and lamp to be easily removed as a unit. This dome not only adds to the appearance of the reflector but it provides reflecting surface for every ray of light above the horizontal. The interior is white enameled even above the socket so that the only light lost is the light cut off by the lamp base-a negligible percentage.

An additional feature of this reflector is the fact that the edge of the rim is turned over and then enameled. This rolled edge prevents splitting of the enamel during handling or operation and makes the reflector absolutely rustproof.

HOLOPHANE BAND REFRACTOR

The band refractor is a development of the prismatic refractor which was placed on the market a few months ago and marked the greatest advance ever made in a device for controlling the direction of light. It consists of two clear glass bands one of which fits snugly inside of the other. The joints are sealed to make a weatherproof union. The inner part is girdled on its outer surface by horizontal prisms which refract the light from the source at an angle of 10 degrees below the horizontal. The outer part has vertical diffusing prisms on its inner surface for the purpose of spreading the light rays transversely and making the refractor luminous over its entire surface. The two prismatic surfaces come close together when the parts are sealed and the inner and outer surfaces of the complete refractor

The distribution curve shows that there is a low intensity under a low candle-power unit equipped with a bowl refractor. The reason for this is that the complete refractor redirects a large percentage of the upward and downward light to the 10

Liberal Hand Room. The refractor being hinged, it is easily lowered and the liberal hand room in the dome interior facilitates the removal of the lamp and socket as a unit and makes the cleaning of the refractor very easy.

Small Size. The small size and the shape of the canopy prevent snow and ice collecting on it.

The smaller size also offers a smaller mark for malicious breakage.

SUMMARY

Street lighting fixtures represent a permanent investment. They are bought for tomorrow as well as today and the points just mentioned are of the utmost importance

The fixture must be an efficient illuminant; efficient because no unnecessary light should be wasted by either misdirection or absorption and because the distribution must be such that with average heights and spacings, a uniform and effective

SUMMARY (Cont'd)

The fixture must be safe; not only safe under ording conditions but with sufficient insulation and mechanical streng

The system must be durable for it is in continuous serv contribute to the strength of the unit but must also be su

A careful analysis shows how well the line of bracket

Page 9
ILLUSTRATIONS



Page 10 ILLUSTRATIONS



Page 11

ILLUSTRATIONS



RIGHT ANGLE BEND SERIES BRACKET EQUIPPED WITH CAT. NO. 17427-3, 635-10. HOLOPHANE BAND REFRACTOR

Page 12

ILLUSTRATIONS



Page 13 ILLUSTRATIONS



EAL N. WA B ST. ST. B



Page 14



EVE SUSPENSION SERIES FIXTURE EQUIPPED WITH CAT. NO. 17427's 614-in. holophane prismatic band refractor



EYE SUSPENSION SERIES FIXTURE EQUIPPED WITH CAT. NO. 174276, 814-IN. HOLOPHANE PRISMATIC BAND REFRACTOR





Bishop's Crook, 1 1/4 In. Pipe Bracket, External or Concealed Wiring

		FOR SERIES		ETE UNIT
Equipp	ED WITH	C-P.	Cat. No.	Appro Ship.W per 20 Bracke
-	Cat. No. 46219, 20 in. radial wave reflector	40 60 80 100	114979	675
-0-	Cat. No. 174270, 20 in. dome radial wave re- flector.	40 60 80 100 250 400	174250	675
*	Cat. No. 174273, 6½ in. Holo phase prismatic band refractor with holder .	40 60 80 100	174251	76.)
4	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{ 250 } 400 }	174262	845

Standard finalli, black japan; galvanized iron finish car l

For details of sockets and reflectors see Pages 48 to 51



Double Bend, 1 1/4 In. Pipe Bracket, External or Concealed Wiring

		FOR SERIES		ETE UNIT UT LAMP)
EQUIPPE	D WITH	C-P.	Cat. No.	Approx. Ship.Wt. per 20 Brackets
-	Cat. No. 46219, 20 in. radial wave reflector	\$\begin{bmatrix} 40 \ 60 \ 80 \ 100 \end{bmatrix}\$	103156	800
	Cat. No. 174270, 20 in. dome radial wave re- flector.	40 60 80 100 250 400	174284	800
	Cat. No. 174273, 654 in. Holo- phane prismatic band refractor with holder	\$\begin{pmatrix} 40 \\ 60 \\ 80 \\ 100 \end{pmatrix}\$	174285	885
	Cat. No. 174276. 8½ in. Holo- phane prismatic band refractor with holder		174286	970

Standard finish, black japan; galvanized iron finish can be furnished.

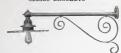
For details of sockets and reflectors see Pages 48 to 51.



Right Angle Bend, 1 1/4 In. Pipe Bracket, External or Concealed Wiring

		FOR SERIES	COMPL (WITHO	ETE UNIT
EQUIPPE	D WITH	C-P.	Cat. No.	Appi Ship per Brac
	Cat. No. 46219, 20 in. radial wave reflector	40 60 80 100	105691	67
	Cat. No. 174270, 20 in. dome radial wave re- flector	40 60 80 100 250 400	174288	67
	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	\$\begin{bmatrix} 40 \ 60 \ 80 \ 100 \end{bmatrix}\$	174289	76
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{ 250 }	174290	84.

Standard finish, black japan; galvanized iron finish can furnished. For details of sockets and reflectors see Pages 48 to 51.



Right Angle Joint, 1 1/4 In. Pipe Bracket, 48 In. Extension, External or Concealed Wiring

EQUIPPED	WITH	FOR SERIES LAMPS	Cat.	Approx. Ship.Wt. per 20 Brackets
	Cat. No. 46219, 20 in. radial wave reflector	\$\begin{pmatrix} 40 \ 60 \ 80 \ 100 \end{pmatrix}\$	103157	700
-	Cat. No. 174270, 20 in. dome radial wave re- flector	90	174292	700
	Cat. No. 174273, 63% in. Holo- phane prismatic band refractor with holder		174293	785
	Cat. No. 174276, 834 in. Holo- phane prismatic band refractor with holder		174294	870

Standard finish, black japan, galvanized iron finish can be furnished.

For details of sockets and reflectors see Pages 48 to 51.



Ornamental Goose Neck, 3, 4 In. Pipe Bracket, with Petticoat Insulator, External Wiring

		FOR	COMPLE (WIIHO)	TE UNIT
FOUIPPED WITH	•	CP.	Cat. No.	Approximately Ship. 1 per a Brack
_	5 46219, 20 66 2 Water 64 10 4	40 60 80 100	46213	900
-	n dene nal wave re-	40 60 80 100 1 00 400	174296	70
1	to 1/4270 H ine promati and petractor is hower	40 60 NO 100	174297	HER
	174976 3 1 Hrs als progrative refract :	250	174296	NSA

a k japan, galvanized iron finish, an



Right Angle Joint, 1 1/4 In. Pipe Bracket, 20 In. Extension, External or Concealed Wiring

		FOR COMPLETE UNIT		T LAMP!
EQUIPPED	WITH	C-P.	Cat. No.	Approx hip Wt per 20 Bracket
-0004000	Cat No. 46219, 20 in, radial wave reflector	40 60 80 100	111656	6/III
-	Cat. No. 174270. 20 in. do se radial wave re- flector	40 60 80 100 250 400	174300	650
-	642 in. Holo- phane prismatic hand refractor with holder	40 60 80 100	174301	769
	Cat No 74276. N°2 in Holo- phane pri mati- band refract r with holder		174302	820

Standard finish, black japan; galvanized from finish as furnished.
For details of sockets and reflectors see Pag. 48.



Goose Neck, 3/4 In. Pipe Bracket, External Wiring

		FOR SERIES	COMPL (WITHO	ETE UNIT
EQUIPPED	WITH	C-P.	Cat. No.	Appe Ship. per Brack
-000	Cat. No. 46219, 20 in. radial wave reflector	40 60 80 100	114768	51
_	Cat. No. 174270, 20 in. dome radial wave re- flector	40 60 80 100 250 400	174304	51
	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	40 60 80 100	174305	60
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{ 250 }	174306	688

Standard finish, black japan; galvanized iron finish can furnished.

For details of sockets and reflectors see Pages 48 to 51.



Plain Goose Neck, 3 4 In. Pipe Bracket with

		FIRE	TRUE TANK	
EGUIPPES	WITH	CP	Cat	W.
	a hild ear	1999	16913	in
_	pla via r	STATE	174306	-
*		1000	174309	4).
	The Part of State of	100	174310	-

Stan and to the Mark papers gaive and the h

Per details if hets and reflect raises



Telescoping 3/4 and 1 1/4 In. Pipe Bracket, External Wiring-4 to 7 Ft. Extension

	Willing -4 to 7 I	t. Ext	ension	
EQUIPPED	WITH	FOR SERIES LAMPS C-P.		ETE UNIT
-	at No. 46219, 20 in. radial wave reflector	40 60 80 100	174311	
	at. No. 174270 20 in dome radial wave re- flector	40 60 80 100 250 400	174818	
*	dt No. 174278, 615 in. Holo plane primatic band refractor with holder	40 60 80 100	174314	
4	Cat No. 174276 h 1/4 in Holo i hane prismatis land refractor with holder	250 400	174318	

and firm , black japan, galvanized tren finish on etail of sockets and reflectors see Payor 48 to 51



COMPLETE UNIT

FOURPES WITH

CAL.

No.

16562

DODATE WITH CALL

Exposer hond and diffe-

State of tesh, hack pane sales of test of test



Eye Suspension Center Span Fixture with Cross Arm Insulator Hanger

			,	
EQUIPPED		FOR SERIES LAMPS	COMPLETE UNIT (WITHOUT LAMP)	
Edoirres	with	C-P.	Cat. No.	Ship.
	Cat. No. 46219, 20 in. radial wave reflector	40 60 80 100	74810	45
	Cat. No. 174270, 20 in. dome radial wave re- flector	40 60 80 100 250 400	174317	42
-	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	40 60 80 100	174318	50
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{ 250 } { 400 }	174319	59

Standard finish, black japan; galvanized iron finish can

For details of sockets and reflectors see Pages 48 to 51. For omission of hanger, a deduction from price is made.



Strain Insulator Center Span Suspension

		202	THE PARTY TO A MANAGEMENT OF THE PARTY OF TH		
EQUIPPED	#11H	C.P	f at No	100	
<09000P	radia wave	80 69 99 99	128360	400	
-	District Control of the Control of t	60	174391		
-	- 174.0 	Ser.	176322	-	
			174323		

Stat lar



Cross Arm Suspension

EQUIPPED WITH		FOR SERIES LAMPS		MPLETE UNIT THOUT LAMP)	
		C-P.	Cat. No.	Ship.W per 20 Fixture	
-004000	Cat. No. 46219, 20 in. radial wave reflector	40 60 80 100	103158	380	
	Cat. No. 174270, 20 in. dome radial wave re- flector	40 60 80 100 250 400	174325	380	
	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	40 60 80 100 1	174326	465	
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{ 250 } 400 }	174327	550	

Standard finish, black japan; galvanized iron finish can furnished.
For details of sockets and reflectors see Pages 48 to 51.



Cross Arm Suspension with Petticoat Insulator

	MITH	FOR SERIES	(WITHOUT LAMP)	
EQUIPPED		C-P.	Cet. No.	Approx hip Wt. per 20 Pixtures
	'at, No. 46219, 20 in. radial wave reflector.	40 60 80 100	49088	400
	Cat. No. 174270, 20 in. dome radial wave re- flector	40 60 80 100 250 400	174329	400
*	Cat. No. 174273, 61/2 in. Holo- phane prismats band refractor with holder	40 60 80 100	174330	485
	Cat. No 174276. 836 in. Holo phane prismate band refractor with holder	250 400	174331	170

Standard finish, black japan, galvanized iron finish and a risked

For details of sockets and reflectors see P ge 48 in W



Eye Suspension

	FOR SERIES: LAMPS	(WITHOUT LAMP)	
EQUIPPED WITH	C-P.	Cat. No.	Ap: Ship pe Fix
Cat. No- 46219 in. radial w reflector	ave 40	103159	
Cat. No. 1743 20 in. de radial wave flector	re- 60	174333	ļ.
Cat. No. 1745 61/2 in. Hu phane prime band refra with holder.	atic (40)	174334	
Cat. No. 1744 8½ in. H phane prism band refra with holder	olo- atic	174335	į

Standard finish, black japan; galvanized iron finish ca formshed. For details of sockets and reflectors see Pages 48 to 51.



CAT. NO. 36555 CAT. NO. 34928
Cross Arm Suspension Fixtures with Parabolic Deflectors

	COMPLETE UNIT (WITHOUT LAMP)		
EQUIPPED WITH	Cat. No.	Approx. Ship. Wt per 20 Fixtures	
opper hood and deflector for 1 ½ in- base lamp	36555	225	
Alvanized iron hood and deflector for 1); in base lamp	34928	225	

Standard finish, black japan; galvanized iron finish can be

For details of seckets and reflectors see Pages 48 to 51.

MULTIPLE BRACKETS



Bishop's Crook, 1 1/4 In. Pipe Bracket, Concealed Wiring

		FOR MUL-	COMPLETE UNIT (WITHOUT LAMP)	
EQUIPPED	WITH	TIPLE	Cat.	Ship.
		Watts		Brack
	Cat. No. 46219, 20 in. radial wave reflector	{ 40 }	161339	678
-	Cat. No. 174270, 20 in. dome radial wave re- flector	{ 100 } 200 }	174337	673
	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	{ 100 } 200 }	174338	76
	Cat. No. 174276, 834 in. Holo- phane prismatic band refractor with holder	300 400	174339	84

Standard finish, black japan; galvanized iron finish can furnished.

For details of sockets and reflectors see Pages 48 to 51.

MULTIPLE BRACKETS



Double Bend, 1 1/4 In. Pipe Bracket, Concealed Wiring

		FOR MUL- TIPLE LAMPS	COMPLETE UNIT (WITHOUT LAMP)	
EQUIPPED	WITH		Cat.	Approx. Ship.Wt.
		Watts	No.	per 20 Brackets
	Cat. No. 46219, 20 in. radial wave reflector	{ 40 }	152822	800
	Cat. No. 174270. 20 in. dome radial wave re- flector	{ 100 } 200 }	174341	800
-	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder		174342	885
	Cat. No. 174276, 834 in. Holo- phane prismatic band refractor with holder		174343	970

Standard finish, black japan; galvanized iron finish can be furnished.

For details of sockets and reflectors see Pages 48 to 51.

MULTIPLE BRACKETS



Right Angle Joint, 1 1/4 In. Pipe Bracket, 48 In. Extension, Concealed Wiring

EQUIPPED Y	WITH	FOR MUL- TIPLE LAMPS	Cat. SI
-00/H00>	Cat. No. 46219, 20 in. radial wave reflector	40 60 }	161356
-	Cat. No. 174270, 20 in, dome radial wave re- flector	{ 100 } 200 }	174349
-	at. No. 174273. 61/2 in. Holo phane prismatic band refractor with holder	100 l 200	174350
	at. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	300]	174351

Standard finish, black japan; galvanized iron finish ca unished. For details of sockets and reflectors see Pages 48 to 51.



Right Angle Bend, 1 1/4 In. Pipe Bracket, Concealed Wiring

		FOR MIL-		TE UNIT
EQUIPPED	WIFH	HAMPS Watts	Cet. No.	Approx hip.Wt. per 20 Brackets
	Cat. No. 46219, 20 in radial wave raffectur	40 60	161360	675
	Cat N 174270 20 /n d se radral wave re fletter	100	174346	67
-	Cat 174271 G1 in 11.7 p are pro attained and person with he lec	(200)	174344	760
	Tat No. 1/4276 No. 1/4	100 400 530	174347	845

Statular) mish, black japan, galvanized from house

For d tails of so kets and reflectors see Pin 181



Ornamental Goose Neck, 3/4 In. Pipe Bracket, with Petticoat Insulator, External Wiring

EQUIPPI	D WITH	FOR MUL- TIPLE LAMPS	Cat.
		Watts	No.
	Cat. No. 46219, 20 in. radial wave reflector	{ 40 }	125322
	Cat. No. 174270, 20 in. dome radial wave re- flector	{ 100 }	174353
-	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	{ 100 }	174354
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	{300 400}	174355

Standard finish, black japan; galvanized iron finish ca furnished. For details of sockets and reflectors see Pages 48 to 51



Right Angle June, 1 1 to In Pipe Blance | In In Release | World

-					77.7	
-	Filtra	(2)	101000			
-	12.77	=	(100)	1-		
-	M		organ.	-		
4	ME	B	11 6100			

Married State, State Same Antonional Transform on Sa

The same of some and some section in the same



Plain Goose Neck, 3, 4 In. Pipe Bracket, with Petticoat Insulator, External Wiring

		FOR MUL- TIPLE	COMPLETE UNIT (WITHOUT LAMP)	
EQUIPPED	WITH	LAMPS	Cat. No.	Appr Ship.
		Watt«		Brack
	Cat. No. 46219, 20 in. radial wave reflector	40 60	125323	520
_	Cat. No. 174270, 20 in. dome radial wave re- flector		174361	520
*	Cat. No. 174273. 6½ in. Holo- phane prismatic band refractor with holder	{ 100 }	174362	61
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	300 400 500	174363	69

Standard finish, black japan; galvanized iron finish can furnished. For details of sockets and reflectors see Pages 48 to 51,



Goose Neck, 3 4 In. Pipe Bracket, Concealed Wiring

		10	(IMPLETE TOL)	
Equipped	***	ANT	No.	22
	To Jackson		188820	
-0-	1	-	174240	
-		=	17634.0	-
4	W	2	176307	-

Name of Control of Street Street, particularly from Street, Street



Telescoping 3.4 and 1.1/4 In. Pipe Bracket, External Wiring—4 to 7 Ft. Extension

		FOR MUL-	COMPLET (WITHOUT	
EQUIPPED	WITH	TIPLE LAMPS	Cat. No.	Appr Ship. per: Brack
-	Cat. No. 46219, 20 in. radial wave reflector	{ 40 }	174368	67
_	Cat. No. 174270, 20 in. dome radial wave re- flector	{ 100 } 200 }	174370	67
*	Cat. No. 174273, 6½ in. Holo- phane prismatic band refractor with holder	{ 100 }	174371	76
	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	\$\begin{cases} 300 \\ 400 \\ 500 \end{cases}\$	174372	84

Standard finish, black japan; galvanized iron finish can furnished. For details of sockets and reflectors see Pages 48 to 51.

MULTIPLE BRACKETS Goose Neck 3 4 In Pipe Bracket, with Perabolic Deflector, Esternal Wiring HER STOLYMAN No. THE SHAPE

Section 1995, the Name of Section 2015



Eye Suspension with Cross Arm Insulator Hanger

		FOR MUL-		TE UNIT
EQUIPPE	D WITH	LAMPS	Cat.	App Ship per
		Watts	140.	Pixt
-007(00)	Cat. No. 46219, 20 in. radial wave reflector	40 60 }	161383	4:
_	Cat. No. 174270, 20 in. dome radial wave re- flector	100 200	174374	43
-	Cat. No. 174273, 61/2 in. Holo- phane prismatic band refractor with holder	100 }	174375	51
4	Cat. No. 174276, 8½ in. Holo- phane prismatic band refractor with holder	300 400	174376	56

Standard ninsh, black japan; galvanized fron hijsh car fulfilled.

For details of sockets and reflectors see Pages 48 to 51

or omission of hanger a deduction from price is mad

Page 43

MULTIPLE FIXTURES



Eye Suspension

		10	SWPLETE UNIT	
junera	404	Tem	i al N a	53
	-	(3)	161290	7=
	15.7		174876	-
*	H		174279	
-	10	=	176200	

To death of the last of the la



Cross Arm Suspension with Petticost Insulator

t guireso	W17 m	P = B M = g F = C = B A M E = C	COMPLETE UNIT
	Line		188384
_	at the Cast		174202
*	() () () () () () () () () ()	10	174383
			174994

For Armed Published and Arthritis has Proper By Letter



Cross Arm Suspension

		MPLE	C UMI
GENERAL BILL	(coli)	(a) No	21
-	123	161300	-
<u> </u>	120	176204	-
- M	100	174907	
		176300	

Product over their paper privated the last on the last of the last of the last over th



Cross Arm Suspension Fixtures with Parabolic Deflector

	(WITHO	CT LAMP)
EQUIPPED WITH	Cat. No.	Appr Ship. per Pixti
Copport hand limit lightertor for 1 m. base	123753	22
End, bized or head and deflector for	123784	22

Standard famili, black japan; galvanized iron finish can form she!

For details of sockets see Pages 48 to 51. RAILWAY BRACKET



Five-Light Bracket for 600 Volt Railway Circuits

Cat.

Descriptive

166577

Pive-light bracket for 600 volt railway circuits .

REFLECTORS AND FITTINGS

Cat. Descriptive		SHIP	. W1
No.	Descriptive	Lb.	Qu
	The following reflectors are not standard but are listed for reference:		
155524	20 in. radial wave reflector for 40, 60, 80 and 100 c-p. series and 100 and 150 watt multiple lamps	122	1
155525	18 in. concentric reflector for 40, 60, 80 and 100 c-p. series and 100 and 150 watt multiple lamps	95	1
155526	20 in. concentric reflector for 250 and 400 c-p. series and 100, 150 and 250 watt multiple lamps	107	10
155528 155525 158432 176568	18 in. concentric reflector with Holophane prismatic bowl refractor for 60, 80 and 100 c-p, series and 100 watt multiple lamps. 18 in concentric reflector. Refractor. Holder for refractor.	300 95	20
55529 55526 58298 7 6 569	20 in. concentric reflector with Holophane prismatic bowl refractor for 250 and 400 c-p. series and 200 watt multiple lamps. 20 in. concentric reflector. Refractor. Holder for refractor.	385 107	20

Page 49

REFLECTORS AND FITTINGS



Cat. No. 46219—20-In. Radial Wave Reflector Por 40, 60, 80 and 100 c-p. Series and 40, 60 and 100 Watt Multiple Lamps Ship. Wt. per 20—131 Lb.



Cat. No. 174270 - 20-In. Dome Radial Wave Reflector
For 40, 60, 80, 100, 250 and 400 c-p. Series and 100 and 200 Watt Multiple Lamps
Sho. Wt per 20-145 Lb.





Cat. No. 174273 61; -In. Holophana Prismatic Band Refractor with Canopy and Holder. For 40, 60, 80 and 100; -p. Serre art 1 00 and 200 War. Municipal Bangs.

nalsta of: Cat. No. 174272 Holder.





Closed
Cat No. 174276 - #3-fn. Holophans Prismatic Band Refractor with Canopy and Holder. For 250 and 4001 -p Series and 300, 400 and 500 Watt Multiple Lamps
Consists di-

Cat. No. 174275 Holder.

SOCKETS AND RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES

Cat. No.	Descriptive	Ship. Wt. in Lb. per 100
25708	Porcelain series socket and receptacle, complete, including iron yoke Cat. No. 25714, for use with Mogul screw base lamps.	200
25711	Porcelain series socket only, for Mogul screw base lamps.	112
25720	Porcelain series socket, only for medium screw base lamps.	46
156722	Skeleton multiple socket for Mogul screw base lamps	52
129804	Porcelain multiple socket, for Mogul screw base lamps.	112
129803	Porcelain multiple socket, for medium screw base lamps.	112
GE069	Porcelain multiple socket with 32 in. pipe tap, for Mogul screw base lamps	330
GE427	Porcelain multiple socket with yoke for 3/2 in. pipe, for medium screw base lamps	80
25712	Porcelain receptacle with clips and iron yoke. This is Cat. No. 25708 less Cat. No. 25711.	103
25713	Porcelain receptacle with clips only	54
25714	Iron yoke (14 in18 thread) with two screws Cat. No. 10252. Used in Cat. No. 25712	50
46627	Keyless receptacle.	30
28812	Adapter nut	50
28813	1/2 by 31/4 in. nipple .	50
58636	12 by 15 in. nipple	40
64626	1/2 in. close pipe nipple	40
65951	Aluminum disk film cutcut. Tested for 110 volts; probable limit of breakdown, 230 to 450 volts	34
47969	Lead disk film cutout. Tested for 70 volts; probable limit of breakdown, 70 to 220 volts ned for use with lamps operated from S.L. transform	14

Note.—With each shipment of 12 or less of the above series sockets a package of 15 disk film cutouts, Cat. No. 65951,

SOCKETS AND RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES





CAT. NO. 156722



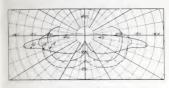
A-20-in radial wave reflector, Cat. No. 46219. B-20-in. radial wave reflector—dome type, Cat. No. 174270.
C-614-in. Holophane presmatic band refractor and holder, Cat. No. 17427



A-20-in. radial wave reflector, Cat. No. 46219.

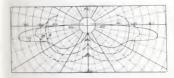
B-20-in. radial wave reflector—dome type, Cat. No. 174270.

C-61/-in. Holophane prismatic band refractor and holder, Cat. No. 17427



NO 1-P. SSRIES MAZDA LAMP SHOWING DISTRIBUTION WITH

A 20-in, radial wave reflector, Cat. No. 46219. 20 in radial wave reflector, tat. No. 14270 6' Holophane primate band refrector Cat



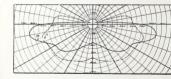
100 C-P. SSRIES MAZDA LAMP SHOWING DISTRICTION WITH

A 20-in. radial wave reflector, Cat. No. 46219.

B - 20 in regisal wave reflect dome type Cet. No. 74270



250 c-p. SERIES MAZDA LAMP SHOWING DISTRIBUTION WITH A—20-in. radial wave reflector—dome type, Cat. No. 174270, B—85/-in. Holophane prismatic band refractor and holder, Cat. ? 174276



400 c-p. Series MAZDA LAMP SHOWING DISTRIBUTION WITH A—20-in. radial wave reflector—dome type, Cat. No. 174270.

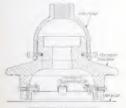
B—85/sim. Holophane prismatic band refractor and holder, Cat. No. 174270.

Page 5

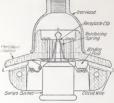
INCANDESCENT FIXTURES



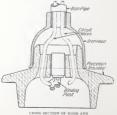
MATHOD OF TYING LEADS THROUGH IN I SEE A FOR ARM



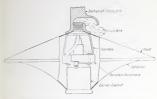
LAT'RE FOR NEXTED 224 ENT



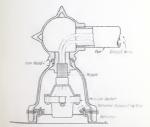
CROSS SECTION OF HOOD AND INSULATOR FOR SERIES BRACKET SHOWING EX-



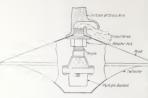
CROSS SECTION OF HOOD AND INSULATOR FOR SERIES BRACKET SHOWING IN-TERNAL WIRING



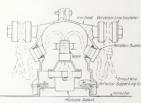
(ROSS SECTION OF HODD AND PARABOLIC DEFLECTOR FOR SERIES BRACKET OR CENTER SPAN FIXTURE SHOWING METHOD OF WREING



ROSS SECTION OF HOOD FOR RIGHT ANGLE JOINT MULTIPLE BRACKET



CROSS SECTION OF HOOD AND PARABOLIC DEFLECTOR FOR MULTIPLE BRACKET OF CENTER NPAN FIXIUME SHOWING METHOD OF WIRING



CROSS SECTION OF HOOD FOR CROSS ARM SUSPENSION MULTIPLE FIX

DIMENSIONS OF INCANDESCENT FIXTURES



	APPROX DIMEN IN INCHES		For	
Descriptive	Light Center to Pole See Fig A	Overal Height See Pig A	Illustretion see Pages	
BRACKETS				
Behoj C. C. vik Bend Rubt Angla Bend Rubt Angla Joint (Long) C. memetal Cloose Neck Rubt Angla Joint (Short) C. mas &	20 % 49 % 48 48 48 20 48	31 1/2 35 3/4 24 1/4 25 1/4 37 1/4 16 1/2 19 4/4	16 7 17 7 18 35 19 14 20 36 21 37 22 19	
Place Goose Neck with Petticoat Insulator Tecoping tek with Petticoat Insulator and	48 48 84 48	28 341 26 4	23, 38 24, 40 25, 41	
CENTER SPAN FIXTURES SERIES F a Suspension with Cross Arm Insulator Wanger		Nederland Nederland Neder Neder	26	
C Arm Suspension with Petticoat In a		Store	37	
Eye Suspension Cr Arm Suspension with Deflectors		6 1213	10 11	
MULTIPLE				
E s Su-pension with Cross Arm Invalation Hanger Eye Suspension Cross Arm E		16 75 ₉	42 43	
Coss Arm Suspension with Petticoat Invu-		11352	44	



Dimensions of Dimensions of Standard & In. Pipe Standard 1\(\frac{1}{2} \) In. Pipe Pipe DIMENSIONS FOR STREET LIGHTING SYSTEM BEAUTICES.



